nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS OTTOCE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiation of the Office or upon petition by the appliciant. See 37 CFR 1.313 and MPEP 1308. National Patent Pa		Application No.	Applicant(s)	
Notice of Allowability Examiner Katarzyna Wyrozebski Lee 1714	Notice of Allowability	10/039,558	LIN ET AL.	1
The MAILING DATE of this communication appears on the cover sheet with the correspondence address- lik claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included revertils for previously mailed, a Notice of Alkowance (PTOL-85) or other appropriate communication will be mailed in de course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiation of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to 1/22/2004. 2. ☑ The allowed claim(s) Is/are 1.5-9 and 12-15. 3. ☑ The drawings filed on 08 January 2002 are accepted by the Examiner. 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in International Bureau (PCT Rule 17.2(a)). **Certified copies of the certified copies of the priority documents have been received in International Bureau (PCT Rule 17.2(a)). **Certified copies of the certified copies of the priority documents have been received in International Bureau (PCT Rule 17.2(a)). **Certified copies of the certified copies of the priority documents have been received in International Bureau (PCT Rule 17.2(a)). **Certified copies of the certified copies of the priority documents have been received in International Bureau (PCT Rule 17.2(a)). **Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received. 3. ☐ Certified copies of the priority documents have been received in Application No. 4. ☐ Certified copies of the priority documents have been received in Application No. 5. ☐ Certified copies of the priority docu			Art Unit	
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	Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/G Paper No./Mail Date	6. ☐ Interview St Paper No./ 7. ☐ Examiner's 8. ☑ Examiner's	ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for All - Katarzyna Wyroz	lowance ebski Lee

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

In view of the applicant's amendment, the prior art of BARBEE and LAN is overcome. Present claims as amended on 1/22/2004 require for the intercalant to be polyoxypropylene diamines. In the method claim the diamines compound is treated with acid. As a result cationic species is formed and the compound is then capable of undergoing cation exchange with clay. Treatment of diamines compound with acid would result in making of di-ammonium compound that is not present in the prior art of BARBEE and LAN.

Newly found disclosure of LAN (US 6,262,162) discloses use of multi-charged ammonium compounds, however these compounds are substituted with alkyl that may at best the alkyl can have alkoxy substituent. The prior art of LAN also does not teach the polyoxypropylene diamines of the present invention.

The term "molecular weight" of the present invention is viewed as definite by the way of the examples on page 4 of the specification.

In view of the above discussion, pending claims 1, 5-9, 12-15 are passed to issue.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katarzyna Wyrozebski Lee whose telephone number is (571) 272-1127. The examiner can normally be reached on Mon-Thurs 6:30 AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR ° system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

COCONYNA / MY6226) Katarzyna Wyrożebski Lee

Primary Examiner
Art Unit 1714

kiwl March 17, 2004